

10/17/2015

Mr. Terry Taylor

Anderson Mulholland & Associates, Inc.

2700 Westchester Avenue

Suite 417

Purchase NY 10577

Project Name: BMS VI

Project #:

Workorder #: 1510223D


Dear Mr. Terry Taylor

The following report includes the data for the above referenced project for sample(s) received on 10/13/2015 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to the Project Manager: Brian Whittaker at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

A handwritten signature in black ink that reads "Brian Whittaker". The signature is written in a cursive, flowing style.

Brian Whittaker

Project Manager

# WORK ORDER #: 1510223D

## Work Order Summary

<b>CLIENT:</b>  <b>PHONE:</b> <b>FAX:</b> <b>DATE RECEIVED:</b> <b>DATE COMPLETED:</b>	Mr. Terry Taylor Anderson Mulholland & Associates, Inc. 2700 Westchester Avenue Suite 417 Purchase, NY 10577 (914) 251-0400  10/13/2015 10/17/2015	<b>BILL TO:</b>  Accounts Payable Anderson Mulholland & Associates, Inc. 2700 Westchester Avenue Suite 417 Purchase, NY 10577  <b>P.O. #</b>  <b>PROJECT #</b> BMS VI  <b>CONTACT:</b> Brian Whittaker
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<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
10A(cancelled)	B8SSV-2100915	Modified TO-15 (5&20 ppbv)		15 psi
11A	B8SSV-2101015	Modified TO-15 (5&20 ppbv)	5.1 "Hg	15 psi
12A	B8SSV-2D101015	Modified TO-15 (5&20 ppbv)	4.3 "Hg	15 psi
13A	Lab Blank	Modified TO-15 (5&20 ppbv)	NA	NA
14A	CCV	Modified TO-15 (5&20 ppbv)	NA	NA
15A	LCS	Modified TO-15 (5&20 ppbv)	NA	NA
15AA	LCSD	Modified TO-15 (5&20 ppbv)	NA	NA

CERTIFIED BY:



Technical Director

DATE: 10/17/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,  
 TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935  
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)  
 Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9562  
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**EPA Method TO-15 Soil Gas**  
**Anderson Mulholland & Associates, Inc.**  
**Workorder# 1510223D**

Three 1 Liter Summa Canister (100% Certified) samples were received on October 13, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

**Receiving Notes**

Sample B8SSV-2100915 was cancelled on 10/13/15 per client's request.

**Analytical Notes**

Dilution was performed on samples B8SSV-2101015 and B8SSV-2D101015 due to the presence of high level non-target species.

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

**Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

## **Summary of Detected Compounds EPA METHOD TO-15 GC/MS**

**Client Sample ID: B8SSV-2101015**

**Lab ID#: 1510223D-11A**

No Detections Were Found.

**Client Sample ID: B8SSV-2D101015**

**Lab ID#: 1510223D-12A**

No Detections Were Found.



Air Toxics

Client Sample ID: B8SSV-2101015

Lab ID#: 1510223D-11A

EPA METHOD TO-15 GC/MS

File Name:	14101607	Date of Collection:	10/10/15 1:15:00 PM
Dil. Factor:	8.10	Date of Analysis:	10/16/15 07:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	160	Not Detected	850	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	97	70-130



Air Toxics

Client Sample ID: B8SSV-2D101015

Lab ID#: 1510223D-12A

EPA METHOD TO-15 GC/MS

File Name:	14101608	Date of Collection:	10/10/15 1:15:00 PM
Dil. Factor:	7.87	Date of Analysis:	10/16/15 07:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	160	Not Detected	820	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1510223D-13A

EPA METHOD TO-15 GC/MS

File Name:	14101605c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/16/15 06:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Naphthalene	20	Not Detected	100	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1510223D-14A

EPA METHOD TO-15 GC/MS

File Name:	14101602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/16/15 04:48 PM

Compound	%Recovery
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Naphthalene	112
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Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130





Air Toxics

Client Sample ID: LCS

Lab ID#: 1510223D-15A

EPA METHOD TO-15 GC/MS

File Name:	14101603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/16/15 05:13 PM

Compound	%Recovery	Method Limits
Naphthalene	82	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1510223D-15AA

EPA METHOD TO-15 GC/MS

File Name: 14101604  
Dil. Factor: 1.00

Date of Collection: NA  
Date of Analysis: 10/16/15 05:44 PM

Compound	%Recovery	Method Limits
Naphthalene	78	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130